

CLAIMS

What is claimed is:

1. A weld-on fastener for an electric contact with a weld nut, the fastener comprising:

a weld nut including:

a topside having a first electric contact face; and

a bottom side having an annular axial projection surrounding a cavity, the cavity having a predeterminable depth;

a screw fastenably connectable into the weld nut, the screw having a second electric contact face; and

a spacer ring operably clamped between the first and second contact faces.

2. The fastener according to claim 1, wherein the first and second electric contact faces together comprise an earth terminal useable in a motor vehicle.

3. The fastener according to claim 1, wherein the spacer ring comprises an elastic material, the elastic material including polyethylene.

4. The fastener according to claim 1, wherein the spacer ring comprises a seal operably sealing the contact faces against one of dirt and paint.

5. The fastener according to claim 1, wherein the spacer ring comprises a pre-determinable thickness substantially equal to the depth of the cavity in a fastener welded state.

6. The fastener according to claim 1, comprising:
the weld nut including an internal thread having an internal thread length; and
the screw including an external thread having an external thread length;
wherein the external thread length is dimensionable such that a screw end is locatable substantially flush with an internal thread end of the weld nut when the spacer ring is clamped.

7. The fastener according to claim 1, wherein an external cross sectional width of the annular axial projection is larger than a topside cross sectional width.

8. A weld-on fastener system, comprising:
a weld nut including:
 - (i) a first end having a flat surface forming a first electric contact face;
 - (ii) a second end having a cavity formable within an annular axial projection and a weldable joint formable at a distal end of the annular axial projection; and
 - (iii) a longitudinal, female threaded aperture formable between the electric contact face and the cavity; anda screw having a male thread engageable with the female threaded aperture of the weld nut, and a head forming a second electric contact.
9. The system of Claim 8, comprising a spacer ring positionable between the first and second electric contacts when the screw is engaged within the female threaded aperture, the spacer ring substantially covering both the first and second electric contacts.
10. The system of Claim 8, comprising a cavity depth measurable from the second end.
11. The system of Claim 10, wherein the spacer ring comprises a thickness substantially equal to the cavity depth.

12. A method for forming a weld-on fastener, the weld-on fastener including a weld nut having a first electric contact face and a cavity formable at an opposed end of the weld nut from the first electric contact face, the method comprising:

extending a female threaded aperture through the weld nut;

positioning a spacer ring in contact with the first electric contact face;

inserting a male threaded screw through the spacer ring until the screw threadably engages with the female threaded aperture; and

fastenably engaging the screw into the weld nut until both a second electric contact face of the screw and the first electric contact face of the weld nut oppositely seat with the spacer ring.

13. The method of Claim 12, comprising forming an annular axial projection about the cavity.

14. The method of Claim 12, comprising controlling a thickness of the spacer ring to substantially equal a depth of the cavity.